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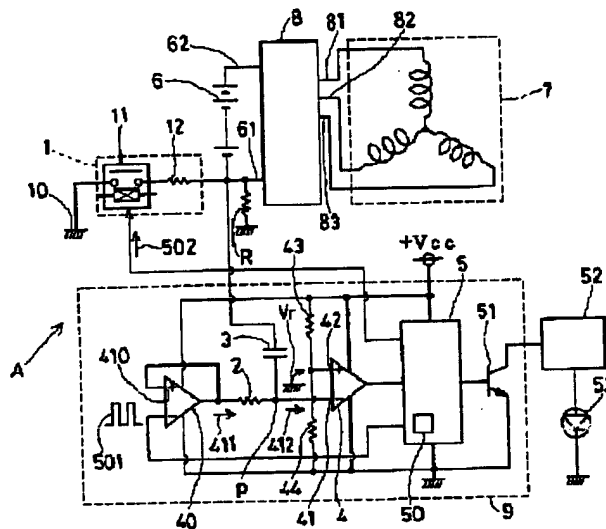
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TITLE : SYSTEM FOR DETECTING GROUND
FAULT OF ELECTRIC VEHICLE



ABSTRACT : PROBLEM TO BE SOLVED: To provide a ground fault detection system for an electric vehicle which can diagnose whether or not the system itself operates normally.

SOLUTION: The ground fault detection system for an electric vehicle is installed to the electric vehicle which has a ground fault trial circuit 1 consisting of a relay 11 and a resistor 12 and connected between a vehicle body 10 and a bus 61, a detection resistor 1 and a coupling capacitor 3 impressing a rectangular wave 411 output from a buffer 41 to the bus 61, a comparator 4 inputting a signal (rectangular wave) 412 at a connection point (p) to the inverting input terminal 41 and a reference voltage Vr to a non-inverting input terminal 42, a controller 5 having an oscillating part 50, a transistor 51, an LED controller 52, an LED 53, an onboard battery 6, an a.c. motor 7 for running of the vehicle, and a DC/AC inverter 8 having an input electrically connected to buses 61, 62 and an output electrically connected to the a.c. motor 7 via a.c. feed lines 81, 82, 83. When a key switch is turned on, the relay 11 is started. The LED 53 is turned on if a trial ground fault cannot be detected in the system.

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